INTERNATIONAL SEARCH REPORT

International application No.

	·	PCT/JPZ	JU4/U16864.
Int.Cl7	ATION OF SUBJECT MATTER H03F3/193, H03F1/02, H04B1/50		
According to Inte	ernational Patent Classification (IPC) or to both national	classification and IPC	
B. FIELDS SE	ARCHED		
Minimum docum	mentation searched (classification system followed by class H03F3/193, H03F1/02, H04B1/50	ssification symbols)	
Jitsuyo Kokai J	itsuyo Shinan Koho 1971-2005 Jit	roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994–2005 1996–2005
Electronic data t	base consulted during the international search (name of d	ata base and, where practicable, search te	rms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app		Relevant to claim No.
Y	JP 11-97946 A (Matsushita Ele Co., Ltd.), 09 April, 1999 (09.04.99), (Family: none)	ectric Industrial	1-25
Y	JP 2002-141764 A (Hitachi Met 17 May, 2002 (17.05.02), (Family: none)	tals, Ltd.),	1-25
Y	Microfilm of the specification annexed to the request of Jap Model Application No. 43041/1 No. 155536/1987) (Iwatsu Electric Co., Ltd.), 02 October, 1987 (02.10.87), (Family: none)	anese Utility	7-8
× Further d	documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the act	ual completion of the international search oruginary, 2005 (25.02.05)	Date of mailing of the international se 15 March, 2005 (15	arch report 5.03.05)
	ling address of the ISA/ ese Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/	210 (second sheet) (January 2004)	Telephone No.	
	(

INTERNATIONAL SEARCH REPORT

International application No.

· · · · · · · · · · · · · · · · · · ·	DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/JP2004/016864	
Category*	Citation of document, with indication, where appropriate, of the relev	ant nassages	Relevant to claim No.
Y	JP 2003-115736 A (Murata Mfg. Co., Ltd.) 18 April, 2003 (18.04.03), Fig. 2 (Family: none)		15,16
Y .	JP 2003-168996 A (Matsushita Electric Industrial Co., Ltd.), 13 June, 2003 (13.04.03), (Family: none)	,	17,18,21,22, 24
Y	JP 2003-204284 A (Matsushita Electric Industrial Co., Ltd.), 18 July, 2003 (18.07.03), Fig. 2 & US 2003/0092398 A1		19,20
Y	<pre>JP 2003-198418 A (Kyocera Corp.), 11 July, 2003 (11.07.03), (Family: none)</pre>		23,25
·		·	
	0 (continuation of second sheet) (January 2004)		